Performance Data Sheet

AWF5524EXN

General Information

Model	AWF5524EXN	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4800	4690					
	Watts	988	937					
	Amps	4.39	4.17					
	Lb/h	58.6	62.7					
-10	Btu/h	6660	6370	5700				
	Watts	1070	1040	1010				
	Amps	4.74	4.61	4.49				
	Lb/h	82.9	84.7	80.4				
-5	Btu/h	8590	8120	7280	6200			
	Watts	1150	1140	1130	1120			
	Amps	5.07	5.02	4.98	4.94			
	Lb/h	108	107	101	90.6			
0	Btu/h	10600	9980	8970	7730	6380		
	Watts	1220	1230	1240	1250	1250		
	Amps	5.35	5.39	5.44	5.48	5.49		
	Lb/h	133	131	123	111	96.4		
5	Btu/h	12800	12000	10800	9390	7890		
	Watts	1280	1310	1340	1360	1380		
	Amps	5.60	5.73	5.86	5.97	6.06		
	Lb/h	160	156	147	133	117		
10	Btu/h	15100	14100	12700	11200	9550	7950	6510
	Watts	1330	1380	1430	1470	1510	1540	1550
	Amps	5.82	6.03	6.24	6.44	6.59	6.70	6.75
	Lb/h	188	183	172	157	141	123	106
15	Btu/h	17500	16300	14800	13100	11400	9640	8080
	Watts	1370	1440	1510	1570	1630	1670	1690
	Amps	5.99	6.30	6.59	6.86	7.09	7.27	7.38
	Lb/h	217	211	199	183	166	148	130
20	Btu/h	20100	18800	17100	15300	13400	11500	9850
	Watts	1400	1490	1580	1660	1740	1790	1840
	Amps	6.13	6.52	6.90	7.25	7.56	7.81	7.98
	Lb/h	249	241	228	212	193	175	158

25	Btu/h	23000	21400	19600	17600	15600	13600	11800
	Watts	1420	1540	1650	1750	1840	1910	1970
	Amps	6.22	6.71	7.18	7.61	7.99	8.31	8.54
	Lb/h	282	273	259	242	224	205	188
30	Btu/h	26000	24300	22300	20200	18000	15900	14000
	Watts	1440	1570	1700	1820	1930	2020	2090
	Amps	6.28	6.86	7.42	7.93	8.38	8.77	9.07
	Lb/h	317	307	293	276	257	238	221
35	Btu/h	29300	27400	25300	23000	20700	18500	16500
	Watts	1440	1600	1750	1890	2020	2120	2210
	Amps	6.30	6.97	7.62	8.21	8.74	9.20	9.57
	Lb/h	355	345	330	312	293	275	258
40	Btu/h	32800	30800	28500	26100	23600	21300	19200
	Watts	1430	1610	1790	1950	2090	2220	2320
	Amps	6.28	7.05	7.78	8.45	9.06	9.59	10.0
	Lb/h	395	384	369	352	333	315	299
45	Btu/h	36600	34400	32000	29400	26900	24400	22200
	Watts	1420	1620	1820	1990	2160	2300	2420
	Amps	6.22	7.08	7.90	8.66	9.35	9.95	10.5
	Lb/h	439	427	412	395	376	358	343
50	Btu/h	40700	38400	35800	33100	30400	27800	25500
	Watts	1400	1620	1830	2030	2220	2380	2510
	Amps	6.11	7.07	7.98	8.82	9.59	10.3	10.8
	Lb/h	485	474	458	441	423	406	392
55	Btu/h	45200	42700	39900	37100	34200	31600	29100
	Watts	1360	1610	1840	2060	2260	2440	2590
	Amps	5.97	7.02	8.02	8.95	9.80	10.6	11.2
	Lb/h	535	523	508	492	474	458	444

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-1.164841E+04	1.629719E+03	6.939644E+00	-2.408198E+02
C2	7.872635E+02	-2.894574E+01	-1.257080E-01	9.618444E+00
C3	7.303708E+02	-1.494320E+01	-5.797741E-02	1.084876E+01
C4	2.109106E+00	-2.077204E-01	-8.731942E-04	-6.647265E-03
C5	-5.564710E+00	6.193521E-01	2.678818E-03	-7.167309E-02
C6	-7.278044E+00	1.701909E-01	6.660721E-04	-9.747355E-02
C7	2.687271E-02	-1.793836E-04	-6.868406E-07	3.045563E-04
C8	2.996689E-03	4.380221E-04	1.724582E-06	3.452987E-04
C9	1.180714E-02	-1.240415E-03	-5.462225E-06	2.095918E-04
C10	2.036319E-02	-6.003528E-04	-2.363491E-06	2.540444E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature